

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/11/03

Date Received: 07/31/03

Project: Metro Self Monitor, PO# M91410, F&BI 307291

Date Extracted: 08/06/03

Date Analyzed: 08/06/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M91410 307291-01	0.21	0.15	0.13	<0.05
Method Blank	<0.05	<0.05	<0.1	<0.05

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 308002-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	<0.05	<0.05	nm	0-20
Copper	mg/L (ppm)	2.3	2.3	0	0-20
Nickel	mg/L (ppm)	<0.1	<0.1	nm	0-20
Zinc	mg/L (ppm)	0.79	0.76	4	0-20

Laboratory Code: 308002-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	<0.05	100	80-120
Copper	mg/L (ppm)	2	2.3	87	80-120
Nickel	mg/L (ppm)	4	<0.1	99	80-120
Zinc	mg/L (ppm)	2	0.79	94	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	107	105	80-120	2
Copper	mg/L (ppm)	2	105	105	80-120	0
Nickel	mg/L (ppm)	4	104	105	80-120	1
Zinc	mg/L (ppm)	2	104	106	80-120	2

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

307291

SAMPLE CHAIN OF CUSTODY

CM 0713103 A11

Send Report To George Thompson
 Company Alaskan Copper Works
 Address 628 S. Hancock
 City, State, ZIP SEATTLE WA 98023
 Phone # 206-382-8339 Fax # 206-382-4309

SAMPLERS (Signature)

PROJECT NAME/NO.

PO #

METRO Self monitor

M91410

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Acidization				
M91410	01	7/31	9:00	H2O	1							✓				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>G. Thompson</u>	<u>ACW</u>	<u>7/31/03</u>	<u>9:00</u>
Received by: <u>[Signature]</u>	<u>ERIC CHOINIERE</u>	<u>FBI</u>	<u>7-31-03</u>	<u>9:25 am</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
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TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 11, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

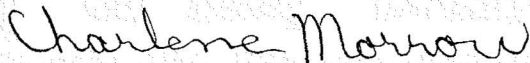
Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 31, 2003 from the Metro Self Monitor, PO# M91410, F&BI 307291 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0811R.DOC